8905

Diag. Cht. No. 1210-3.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. WH-20-2-66 Office No. H-8905

LOCALITY

State Massachusetts

General locality Vineyard Sound

Locality Offshore Elizabeth Islands

to Gay Head

1966

CHIEF OF PARTY

S. C. Miller

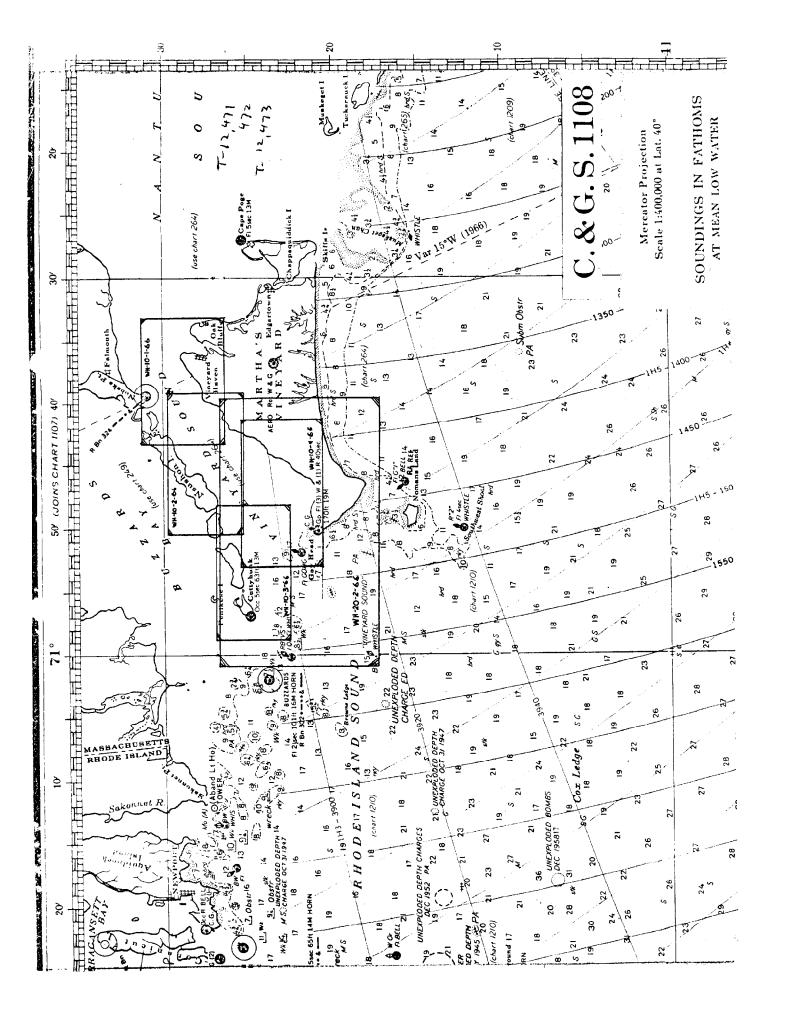
LIBRARY & ARCHIVES

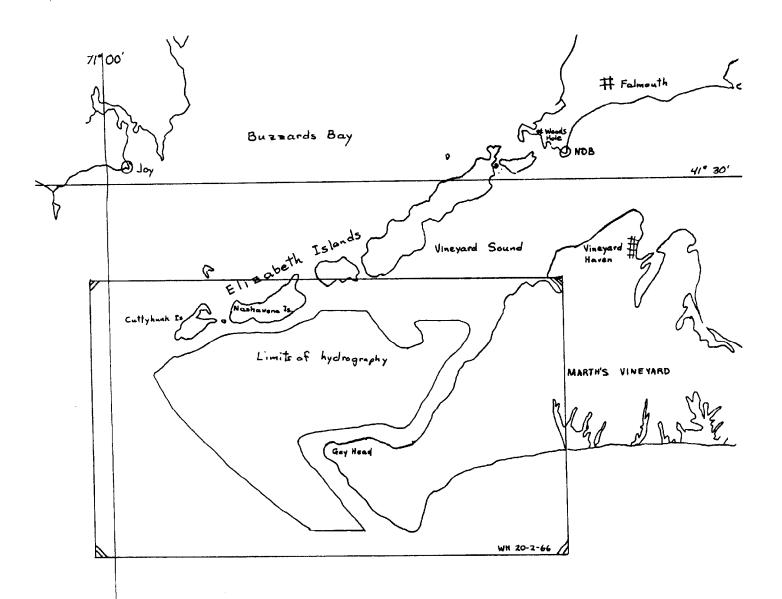
DATE November 29, 1967

USCOMM-DC 87022-P66

HYDROG INSTRUCTIONS - The Hydrogro iilled in as completely as poss	MASSACHUSE VINEYARD S	companied by this form, prwarded to the Office.	H-8905 FIELD NO. Wh 20-2-66	
illed in as completely as poss	MASSACHUSE VINEYARD S	TTS		
State	VINEYARD S			
				·
General locality	•			
Locality	CAY-HEAD	cffshove Eli	zabeth Islands f	•
Scale 1:20,000		Date of su	vey Aug. 9 to Sept. 4,	1966
			OPR-369	
Vessel	WHITING			
Chief of party	cor s.c. Mill	ER		
			& J.R. AVAMPATO ENINGER, D.R. RICH, P	·F. DEA
Soundings taken by echo so	under, hand read bolk			
Graphic record scaled by _	_			
Graphic record checked by .	SHIPS PERSON	NEL		
Protracted by	HARRY R. SMI	TH (NORFOLK H	YDROGRAPHIC BRANCH)	
oundings penciled by	HARRY R. SMI	TH "	11 11	
Soundings in XXXXXXX	feet at MLW	XXXV		
DEMARKS		. •		
REMARKS:				
				 .
			14 LDT 041-07	
	· · · · · · · · · · · · · · · · · · ·			

X.W.W 10/23/91





Location of Hi-Fix stations
Limits of hydrography on WH 20-2-66

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY FIELD NO. WH 20-2-66

Scale: 1:20,000

Ship: USC&GSS WHITING CSS-29

S. C. MILLER, LCDR Commanding 1966

Surveyed by:

LCDR S. C. Miller
LCDR R. A. Trauschke
LTJG K. W. Kieninger
LTJG D. R. Rich
ENS P. F. Dean
ENS J. R. Avampato

A. PROJECT

Authorization for this project is given in:

Basic Project Instructions, OPR 369, 2100 B-pt, 5-2-WH dated 11 March 1963
Supplemental Instructions, OPR 369, Vineyard Sound, Mass., dated 13 June 1966
Supplemental Instructions, OPR 369, dated 17 June 1966

B. AREA SURVEYED

The survey covers the south end of Vineyard Sound off Gay Head, Martha's Vineyard, Massachusetts. The area is bounded by Cutty-hunk and Nashawena Islands on the north and Martha's Vineyard on the east. The northern limit of the survey is ϕ : 41 26' 00". The southwestern limit is a line between ϕ : 41 23' 20": λ 70 58' 30" and ϕ : 41 17' 00": λ 70 51' 30".

Hydrography was begun on 9 August 1966 and ended on 4 September 1966.

The survey joins contemporary surveys H-8903, WH 10-2-66 (plus junctions with H-6465) and H-8904, WH 10-3-66. Prior surveys are:

Registry No.	Date	Scale
н-1802 н-1832 н-2540 н-2852 н-64 6 5	1887 1887 1901 1906 1939	1:20,000 1:20,000 1:10,000 1:20,000 1:40,000—Inked junction See Review

C. SOUNDING VESSEL

All hydrography on this sheet was done by the Ship WHITING.

D. SOUNDING EQUIPMENT

Soundings were obtained by Raytheon D. E. 723 Fathometers, Units #249 and #262. The range of depths encountered was from 20 to 111 feet.

A Nansen cast was made on 6 September 1966 and from this the corrections for the velocity of sound in sea water were obtained. These corrections were tied to those found by simultaneous comparisons between fathometer and leadline. See the separate report to echo sounding.

Squat and settlement values were obtained in November 1964 by rod and level as prescribed in the Hydrographic Manual.

E. SMOOTH SHEET

The smooth sheet will be plotted by the processing office at Atlantic Marine Center, Norfolk, Virginia.

F. CONTROL

The control for the survey was Hi-Fix. The stations were Nob and Joy. Nob was located on Nobska Point at ϕ : 41 30' 43.66" : λ 70 59' 07.02" and Joy was established on Barney's Joy Point at : ϕ 41 30' 56.92" : λ 70 39' 22.86". Joy was built over Joy 1943 RM #4, and Nob was established by third order triangulation. Hi-Fix equipment operating on 1799.6 KC fiequency

Hi-Fix calibrations aboard the ship were accomplished by comparing simultaneous electronic and visual positions on a 1:10,000 calibration sheet. Visual positions were determined with a three point sextant fix using triangulation stations as signals. The positions were plotted on the calibration sheet and the corresponding Hi-Fix values were read from the sheet. The differences between these values and the Hi-Fix values, read simultaneously with the visual fix, were meaned and entered as corrections to the Hi-Fix.

When the area southwest of Gay Head was surveyed, three-point visual fixes, with triangulation stations as signals, were taken on every fix. These were later plotted on the boat sheet in the same manner as outlined above to determine what error is introduced when the Hi-Fix signal passes over land. See the Hi-Fix report for more details. L-M-N days on S.S. plotted by Visual control

A calibration buoy was planted in Menemsha Bight. Lane checks could then be made by circling the buoy and taking fixes when the buoy was on a bearing which was tangent to the known Hi-Fix arc through the buoy.

G. SHORELINE

The shoreline was transferred from prior surveys H-1802 and H-1832. This was done strictly for navigational purposes. Shoreline on 5.5. from T-11,213-11,214-11,218 and T-12,471-12,472-12,473

H. CROSSLINES

Eight percent of the sounding lines were run as crosslines. The agreement was good, generally within 2 feet. It is assumed that for smooth sheet plotting, the differences will be resolved when corrections for actual tide are applied.

I. JUNCTIONS

Agreement with contemporary surveys WH 10-2-66 and WH 10-3-66 was good, within 1 - 2 feet. These discrepancies should be corrected with the application of the smooth tides to the soundings. And professional states of the soundings of the smooth tides to the soundings. And professional states of the soundings. Survey of the soundings of the smooth tides to the soundings. Survey of the soundings of the smooth tides to the soundings. H-1802(1887) 1:20,000

The 60 foot depth curve from H-1802 was traced onto the boat sheet before the survey was begun. The agreement is good throughout the sheet with slight deviations SW of Gay Head, Martha's Vineyard, in the vicinity of ϕ : 41° 20' 30° : 30° : 30° : 30° :

At \$\phi:\(\pm\):\(\pm

The 60 foot depth curve from H-1832 was transferred to the boat sheet before hydro was begun. The agreement is very good between this curve and the soundings obtained during the period of the survey.

H-2540(1901) 1:10,000

H-2540 has development of 1:10,000 south of Pasque Island in the vicinity of $0:41^{\circ}$ 25' 40'' $\lambda:70^{\circ}$ 49' 15". The work done on WH 20-2-66 shows good agreement with this, including the north-south ridge of depth 27-30 feet. (Also note H-3556[1914-15]WD)

H-2852 (1906) 1:20,000

H-2852 is a development of Middle Ground and Lucas Shoal. The work done on WH 20-2-66 shows shoaling of 7-9 feet in the vicinity of $\phi:41^{\circ}$ 26! 10" $\lambda:70^{\circ}$ 45! 20".

Small overlap insufficient for good comparison.

H-6445(1939) 1:40,000

Agreement was good except where noted below:

H-6445 WH 20-2-66

63-65 4952 41°23'00" 70°58'10"
60 5%2 22'05" 50'00%7"
49 22'33" 57'30"
WH 20-2-66 has depths 2-4 feet shoaler in the vicinity of from Φ 41° 19' 30" λ:70° 53' 10" to Φ:41°19'00" 70'52' 00".

J. COMPARISON WITH PRIOR SURVEYS

The only pre-survey review within the area surveyed was item J.

The depth from wire drag survey H-3556 (1914-15) of 26 feet was at φ:41°25.75% λ70° 49.20°. The shoalest depth found was 33 feet at this position, with two 28 foot depths 0.1 mile south. No investigation or development was made.

"Rough" bottom; nerson South-North tidge; see also H-2540 (1901)

K. COMPARISON WITH CHART

CHART 264 1:40,000 printed 19 July 1965.

Depth curves show good agreement, except for the following discrepancies: A shoal 27 feet on Chart #264 seems to have shifted 0.2 miles west to 9:41°24'57" λ :70° 47' 30" on the boat sheet. The 30 foot depth curve showing the westerly point of Lucas Shoal in this vicinity has shifted north about 0.2 miles. Chart #264 shows 37 feet at 9:41° 18' 20" λ :70°4000"; at this position, the survey shows 44 feet Westward of H.

CHART 249 1:40,000 printed 12 April 1965.

The depth curve agreement is good except for the following instances: Chart 249 shows 48 feet at %:41° 23' 54" λ :70° 55' 58", while the boat sheet has 57 feet at this position.

CHART 263 1:12,000 printed 27 July 1964.

Present survey 3-4 feet deeper than Chart 263. See Review.

Agreement is good with Chart 263. A 5\frac{3}{2} feet sounding was found at \$\phi\$:\(\pm\):\(\pm

Note also Chart No. 1210 and see Reviewer's Report

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supersede all prior surveys.

M. AIDS TO NAVIGATION

BUOYS	DEPTH (Light List)	LATITUDE	LONGITUDE	
Devils Bridge Buoy "I Lucas Shoal Buoy Gay Head Lt. Gong "29 No Man's Land Buoy Af No Man's Land Buoy Co	48 66 54	41°21.82' 41°26.70' 41°21.83' 41°19.9' 41°18.3'	70°51.20' 70°46.00' 70°51.80' 70°51.0' 70°16.3'	15 K" 19 "K" 16 "K" 47 "L" 5 "M"
Nashawena Lt. Whistle Buoy BW MO (A)		41°24.361	70°51.18'	17 "K"
Canapitsit Channel Bell Buoy	43	41 ⁰ 25.05'	70°54.41'	18 "K"

All the above buoys adequately serve their purpose. However, Devils Bridge Buoy "l" is now in 5% feet of water.

N. STATISTICS

Total No. of positions	1,570.0
motel No. of neutical miles	539.3
Total area in square nautical miles No. of tide stations (2 tide gages)	42. Garage TREE
No. of tide stations (2 tide gages)	- CO GAY HEAD
NO. OI CULIONO BORDIONE	0
No. of oceanographic stations	7
No. of magnetic stations	2
No. of bottom samples	32

O. MISCELLANEOUS

To be completed by smooth plotter

P. RECOMMENDATIONS

To be completed by smooth plotter

Q. REFERENCE TO REPORTS

Aids to Navigation Coast Pilot Report Correction to Echo Sounding Electronic Control Photogrammetry Report

Respectfully submitted:

Phillip F. Dean Ensign, USESSA

TIDE NOTE

Two portable tide gages were used to record the tides during this survey. One tide gage was located at Cedar Tree Neck :41°26.1' \(\lambda:70^\circ 41.8'\), and the second was at Gay Head :41° 21' 12" \(\lambda:70^\circ 49'\) 46". Tides at the gages were recorded at 60th meridian time was the ship's data. The plane of reference was located at 3.7 feet on the tide staff at Cedar Tree Neck and 1.7 feet on that of Gay Head. No corrections for differences in time or height were applied.

LIST OF SIGNALS

BAP
BUZ
CAT*
CHIL
GAY
PRO-Radar Tower- 7-1/2/5
RED*
SNO
TOW
YAR

GAYHEAD BAPTI
BUZZARD BAY I
Electrotape t
CHILMARK METR
GAYHEAD LIGHT
PROSPECT-CHIL
Electrotape t
GOSNOLD MONUM
NASHAWENA ISI
BRICKYARD CHIL

GAYHEAD BAPTIST CHURCH, COP., 1887
BUZZARD BAY LIGHT (3rd order intersection), 1944
Electrotape traverse
CHILMARK METHODIST EPISCOPAL CHURCH
GAYHEAD LIGHTHOUSE 1875
PROSPECT CHILMARK 1835 RM 3
Electrotape traverse
GOSNOLD MONUMENT 1904
NASHAWENA ISLAND TOWER 1913
BRICKYARD CHIMNEY 1887

Not used - plo Hed out of position on book sheet

* G.P. from ship Whiting by plums

APPROVAL SHEET

This report is complete and adequate for the area surveyed. The report is forwarded for inclusion in the Coast Pilot.

S. C. MILLER LCDR, USC&GS Commanding USC&GSS WHITING

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 16, 1967

Namical Characteristic Marine Center

Plane of reference approved in 8 volumes of sounding records for

HYDROGRAPHIC SHEET 8905

Locality: Vineyard Sound, Massachusetts

Chief of Party: S. C. Miller, 1966

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

Cedar Tree Neck, Massachusetts

Gayhead, Massachusetts

Height of Mean High Water above Plane of Reference is as follows:

Cedar Tree Neck 2.2 feet

Gayhead 2.8 feet

Remarks

1

Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

NORFOLK HYDROGRAPHIC PROCESSING BRANCH ADDENDUM TO Accompany

HYDROGRAPHIC SURVEY H-8905 (Wh 20-2-66)

GENERAL

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and no unusual problems were encountered during the smooth plot.

CONTROL

In compliance with Project Instructions, simultaneous visual fixes were observed with Hi-Fix positions on L,M & N days in the area Southwest of Gay Head. This was done to determine distortion effects on Hi-Fix transmissions from station NOB as they passed over the land mass of Gay Head.

The visual fixes were recorded in supplementary sounding volume number 9, and they were used for positioning purposes on the smooth sheet. Hi-Fix were plotted on a Mylar overlay which is being submitted with the survey. A comparison of the overlay with the smooth sheet will show the varying amounts of disagreement. See Ship Whiting Hi-Fix report for field comments.

It will be noted that Radar Tower (station PRO) was labeled incorrectly on the boat sheet.

Respectfully submitted,

Hugh L. Proffitt

Chief, Hydrographic Branch, AMC

Norfolk, Va. Nov. 17, 1967

;

FORM 197 (3-16-55)

God Heron Alles Q.O. Guide or web **GEOGRAPHIC NAMES** From Horning On local Marca Survey No. H-8905 On Mo. Name on Survey G 13__

Hydrographic Surveys (Chart Division) HYDROGRAPHIC SURVEY NO. H. 87.05.

Records accompanying survey: H-8705 Smooth	sheets	!	;
boat sheets; sounding vols?; wire	drag v	ols	*. .;
Descriptive Reports; graphic recorder 1-Cahier, Fa	envel	opes .X	× ;
special reports, etc. Fathamotor. ON.4. Hi.Fit 18	apar.	7	• • • •
1-Sounding volume, Hi-Fix Calibrations			
	1		
The following statistics will be submitted with trapher's report on the sheet:	ne car		REVIEW
Number of positions on sheet		1,570.	
Number of positions checked		50	/9
Number of positions revised		۰	0
Number of positions revised (refers to depth only)		. 1,5	٥
Number of soundings/erroncously spaced			0
Number of signals erroneously plotted or transferred		o	
Topographic details	215.3		1 ht.
Junctions	Time		25 hts.
Verification of soundings from graphic record	Time	.15	8 hts.
Special adjustments revised jet. with H-8904	Time	0	(see junction)
Verification by .C.F. Trafe Them Total time ?	Da	te 10/4/	47
Reviewed by S. Rose Time 248	hys.Da	t e 3/2?/ .	68

OFFICE OF HYDROGRAPHY AND OCEANOGRAPHY

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8905 FIELD NO. WH-20-2-66
Vineyard Sound, Massachusetts Offshore from Gay Head toward Elizabeth Islands
SURVEYED: August 9, 1966, to September 4, 1966
<u>SCALE</u> : 1:20,000 <u>PROJECT NO.</u> : OPR-369
SOUNDINGS: Raytheon DE-723 CONTROL: HI-FIX and Depth Recorders Sextant Fixes
Chief of Party
Date: March 13, 1968

1. Description of the Area

This is an offshore survey of that portion of Vineyard Sound, Massachusetts, which extends from west of Gay Head, northward and northeastward to the western point of Lucas Shoal.

Inspected by...... R. H. Carstens

The bottom is hard, sandy, and uneven. Shifts in the position of some ridges have taken place throughout the years.

2. Control and Shoreline

A. The source of the control is adequately described in the Descriptive Report

In order to determine the error of Hi-Fix electronic impulses when passing over land, the area southwest of Gay Head was simultaneously controlled by visual fixes and by Hi-Fix. The results indicate that when the ship was headed northeastward (toward the Gay Head land mass) invariably the Hi-Fix positions fell as much as 100 meters southwest of the visual fixes. When the ship was headed southwestward (away from the Gay Head land mass) the Hi-Fix positions in each case fell quite close to the visual fix or a little southwestwardly. When the ship was headed southeastward (paralleling the Gay Head land mass) the Hi-Fix position in each case fell as much as 40 to 60 meters westward of the visual fix. It is apparent that land mass and heading both affected the positional accuracy. HI-FIX investigation overlay in fathogrames.

B. The inked shoreline is merely for purposes of orientation and originates with T-11213, T-11214 and T-11218 of 1955-61 and T-12471, T-12472 and T-12473 of 1961-63. The hydrography does not adjoin the shoreline.

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. Depth curves are adequately delineated. The 36-ft. curve was added to emphasize peaks. The 90-ft. curve was added to emphasize general features.
- C. In the development of bottom configuration and least depths, additional split lines and development would have been desirable particularly where prior surveys revealed features of lesser depth than the present survey.

4. Condition of the Survey

The field plotting, sounding records, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions

Adequate junctions were effected with H-8904 (1966) on the north, H-8903 (1966) on the northeast, and H-6445 (1939) at the west limit of this survey. The survey of the inshore area on the east has not yet been completed.

6. Comparison with Prior Surveys

Α.	H-163	(1:20,000)	1845
	H-204	(1:20,000)	1847
	H-344	(1:20,000)	1852
	H-596	(1:40.000)	1857
	H-1788	(1:40,000)	1887
	H-1802	(1:20,000)	1887
	H-1832	(1:20,000)	1887
	H-2132	(1:10,000)	1892
	H-2540	(1:10.000)	1901
	H-2852	(1:20,000)	1906

Portions of these surveys comprise the prior coverage of the area of the present survey.

Comparison with H-163 (1845) was effected by bearings and distances from South Rock and Triangulation Station ''PASQUE.''

H-204 (1847) has no dependable geographic projection grid nor any shoreline. Soundings are sparse. This sheet was not used for a detailed comparison, although casual comparison indicates general agreement with the present survey.

H-1802 (1887) and H-1832 (1887) cover the entire area of the present survey. In general present depths are 3 to 5 feet deeper than prior depths. Scouring has occurred in some areas and shifting in the position of some of the features is noted. In lat. 41°25.3', long. 70°48.25' a prior feature (charted) with depths of 36 to 44 ft. from H-1832 has scoured to present depths of 53 to 70 feet. Crossing discrepancies of 2 to 6 feet on some of the lines on the prior surveys provide indications of errors in some of the prior sounding values or in their positions as for example in lat. 41°23.0', long. 70°56.55' where soundings of 55-59 feet on a crossline on H-1802 conflict with other depths of 65-71 feet. The present survey fathograms indicate sharp ridges in some of the areas. Where present development is sparse in these areas a judicious selection of prior soundings has been retained to supplement present depths in delineating these features.

The 24 charted from H-1802 in lat. 41°21.3', long. 70°51.3' falls in present depths of 32 to 40 feet. As the position

of the 24 is at the edge of the present survey, the 24 should be retained on the chart pending junctional soundings of the survey of the area inshore.

Together with the soundings carried forward the present survey is adequate to supersede the prior surveys in the common area.

B. Wire Drag Surveys

H-3556 (1913-15) WD

This wire drag survey covers a small portion of the present survey in the area of lat. 41°25.75′, long. 70°49.20′. The hydrography of the present survey does not conflict with the effective depths of this wire drag survey in the common area. One sounding from this wire drag survey was carried forward to supplement depths on the present survey.

FE 3 (1967)

The present depths are in harmony with the effective depths obtained in investigating the wreck in lat. 41°19.03', long. 70°50.17'. Appropriate information from this field examination has been transferred to the present survey.

7. Comparison with Charts Nos. 249, 263, 264, and 1210

Chart No. 249, 19th Edition, June 19, 1967 Chart No. 263, 3rd Edition, July 27, 1964 Chart No. 264, 3rd Edition, February 6, 1967 Chart No. 1210, 10th Edition, June 5, 1967

A. Hydrography

The charted hydrography of the area of the present survey is from the previously discussed prior surveys which require no further consideration, and from the boat sheet of the present survey.

- (1) A 36-ft. depth on Charts Nos. 249, 263, and 264 at lat. $41^{\circ}25.15^{\circ}$, long. 70°50.66' originates with H-1802 (1887) on which survey it is shown as a 56-ft. depth. The 36 foot should be disregarded.
- (2) An 86-ft. depth on Chart No. 263 at lat. 41°24.31', long. 70°52.25' originates with H-1802 (1887) on which

survey it is inked in error. The records indicate a depth of 96 feet for that sounding.

- (3) A 61-ft. depth on Chart 264 at lat. 41°22.30', long. 70°48.69' originates with H-1802 (1887) on which survey it is inked in error. The records indicate a depth of 68 feet for that sounding.
- (4) The 43 feet charted in lat. 41°24.29', long. 70°46.55' from the present survey boat sheet is shown in the records to be 49 feet and should be disregarded.

The present survey supersedes the charted hydrography in the common area.

B. Aids to Navigation

The survey positions of the buoys are in adequate agreement with the charted positions, and adequately mark the features intended. The U.S. Coast Guard "List of Lights" for the year 1966 has a printing error in the longitude for No Man's Land Buoy "CC."

8. Compliance with Instructions

The present survey adequately complies with project instructions.

9. Additional Field Work

This survey is considered to be a good basic survey requiring no additional field work. Soundings carried forward from prior surveys are considered to adequately supplement present depths particularly in the critical areas.

Examined and Approved:

Marine Chart Division

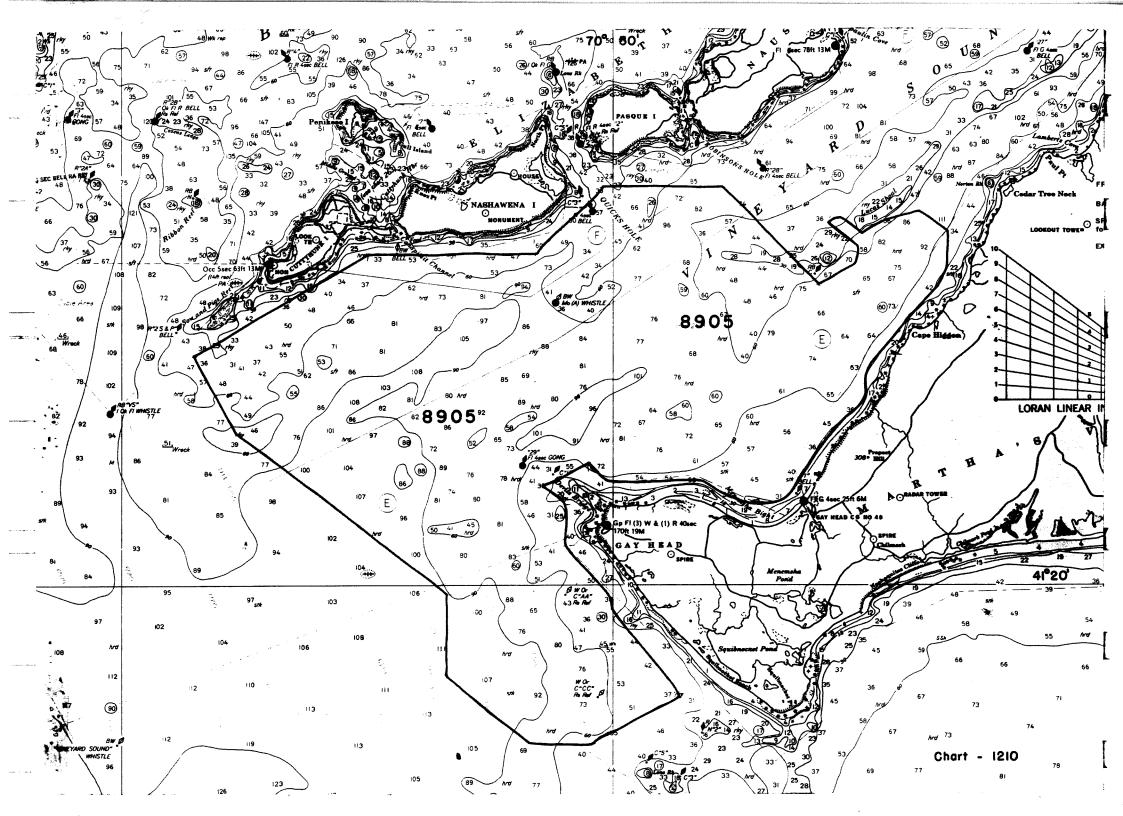
Associate Director Office of Hydrography and Oceanography

H-8905

Information for Future Pre-Survey Reviews

The prior surveys H-1802 (1887) and H-1832 (1887) revealed many small, sharp features in the area of the present survey. Present fathograms also show sharp sand ridges and peaks. Although a comparison of the present and prior surveys reveals a scouring of 3-5 feet in many areas, the sparse soundings in some areas of the present survey may not have detected these sharp topographic features and a number of prior depths on these features have been carried forward.

When resurveys are made in this area, special investigations should be made in the vicinity of these transferred soundings in order to definitely prove or disprove the features.



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
114-50	8-20-76	James Frako	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. Revised and recurers the cht. 249 Dug 3
		0	Cht 264 Dwat 6 & asold partial inso changes tull a sale
249	29 Jan 71	R.D. Sanocki	Cht 264 Dwg 6 & apple portial sign changes full a gali
		<u> </u>	Drawing No. 33 Applied corrections made to smooth Sheet
			during Paview & Inspection from reduction of smooth sheet.
264	1/71	R.D. Sanodi	Juring Review & Inspection from reduction of smooth short, Full Part Before After Verification Review Inspection Signed Via
-			Drawing No. 7 Applieb corrections made to smooth
			Short during Roview & Ivsp from reflecting of smooth shoot.
1210	3/71	R.D. Sandi	Part Before After Verification Review Inspection Signed Via
_			Drawing No. 52 Applied thry Cht. 249 dry 33 \$
			Full Part Date: After Verification Review Inspection Signed Via
1107	3/71	S. McKellar	
			Drawing No. 24 Applied thru chart 1210
_		- 4	
263	8-3-72	g. Bailey	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 8 FULLY APPIED
		2 2 4	,
264	<u>4-20-73</u>	Je Caterrecher	Full After Verification Review Inspection Signed Via
			Drawing No. 8 Applied in part this chart
. 111		~ · · · · · · · · · · · · · · · · · · ·	263 and in part direct.
1145C " E	5-25-13	DL Pollilor	Full After Verification Review Inspection Signed Via
<u>" E " </u>			Drawing No. FULLY APPLIED
	,		
249	7-3-7 3	S. Bailey	Full Part Before After Verification Review Inspection Signed Via
		0	brawing No. 35 Fully Applied in part thru
			Drawing No. 35 Fully Applied in part thru Drug 114-50 #10 (Page E) and in part thructly sheet Full Part Police After Writington Project Inspection Signed Via
1210	9-27-73	J. Bailey	1 del Cart la Cart Vacci
		•	Drawing No. 55 Revised depth curves and sndgs.
			thru Drugs 264 # 8 and 249 # 35 in part
	<u> </u>		and in part directly from reduction of
1107	0 10.70	U.C. ares	smooth sheet.
1101	7-17-13	W.C. Gres	FULLY APPLIED AFTER VER REVIEWEINSP Changed
			THE 10FM CURVE LINE & ADDED SOME SOUNDINGS
			APPLIED THRU CHART 1210.

	L		I.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

 1. Letter all information.

 2. In "Remarks" column cross out words that do not apply.

 3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
1107	1-4-68	n A mace	Part Before Verification Review Inspection Signed Via
			Drawing No. added I sounding (4 4 41°19,5' 70°50')
264	6/3/63	SHOHIMAN	Part Before After Varification Review Inspection Signed Via
7. •	07.07.00		Drawing No. 5 correx of soundings remied before
			inskirting
1210	6/4/68	SME Hillory	Fail Part Before After Verification Review Inspection Signed Via
			Drawing No. 48 Critical correction saly at this time
			Part before
263	6/6/68	O. Svendsen	Part Before After Verification Review Inspection Signed Via
			Drawing No. 7 Applied sdgs & depth curves
70	8/68	Clarence Misfelds	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
. 71	8/68	Clarence Misfeldt	Full Part Before After Verification Review Inspection Signed Via
	760	Claring Muspias	Drawing No.
114-SC	10/18/68	L. Vanzant	Full That Before After Verification Review Inspection Signed Via
		U	Drawing No.
- / -			heliste
263	4-22-70	Frene Beeler	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. No Corr; previously fully appa
249	4-23-70	Jeffrey Stuart	Full Pare Before After Verification Review Inspection Signed Via
-			Drawing No. Applied thru 263 (inpart)
2/1	4 2 2 2	0 0 1	Full Rate Before After Venification Review Inspection Signed Via
264	7.23-10	Irone Beeler	
		1	Drawing No. Prey fully Appd - Minor revisions to sdgs + curves - partly Thru 263
1/07	6/25/70	O. Svendsen	- use chart 1210 - no corr at this scale
70	6/30/70	Jeffier Stuart	- use Charts 1210 and 249 no com
		, , , , , , , , , , , , , , , , , , ,	at this scale (fully applied)
263	8-14-70	Seene Beeler	Full After Verification Review Inspection
	9-16-70	Beverly Dugan	
264	8-14-76	Irene Beeler	n " u n h
			Thru Cht 263 and thru 249 except
1108	1-5-71	BiFernandors -	changes made by Inspection